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- 1 [Breaking the silos: access and service convergence over the mobile](#)  
 Victor C.M. Leung, Terrence Wong, Payman TalebiFard  
 October 2008 **MSWIM '08: Proceedings of the 11th international symposium and simulation of wireless and mobile systems**

**Publisher:** ACM [Request Permissions](#)
**Full text available:** Pdf (716.88 KB) **Additional Information:** [full citation, abstract, refs](#)
**Bibliometrics:** Downloads (6 Weeks): 18, Downloads (12 Months): 134, Citations

Conventional network services operate like silos in that a specific set of a specific type of access network. As access networks evolve to provide it becomes attractive to break these "service silos" ...

**Keywords:** IP multimedia subsystem, convergence, heterogeneous access oriented architecture

- 2 [A middleware for location-based mobile applications with privacy protection](#)  
 Oliver Jorns, Gerald Quirchmayr  
 November 2008 **IIVAS '08: Proceedings of the 10th International Conference on Integration and Web-based Applications & Services**

**Publisher:** ACM

**Full text available:** Pdf (374.18 KB) **Additional Information:** [full citation, abstract, refs](#)
**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 49, Citations

Network operators gradually open their interfaces to formerly hidden service development of a new class of mobile applications that take into account such as the location of users. However, the development of location-based

**Keywords:** location-based services, privacy, security, telecommunications

- 3 [A new architecture for 3G and WLAN integration and inter-system handover](#)  
 S. Mohanty  
 November 2006 **Wireless Networks**, Volume 12 Issue 6  
**Publisher:** Kluwer Academic Publishers

**Full text available:** Pdf (405.31 KB) **Additional Information:** [full citation, abstract, refs](#)
**Bibliometrics:** Downloads (6 Weeks): 20, Downloads (12 Months): 263, Citations

WLAN has strong potential to provide a perfect broadband complement

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systems. This has raised much interest in their integration. In this paper using the Network Interoperating Agent (NIA), and Integration Gateway

**Keywords:** handover failure probability, integration of 3G wireless system handover

4 [Integrating heterogeneous wireless technologies: a cellular aided mobile network \(CAMA\)](#)

Bharat Bhargava, Xiaoxin Wu, Yi Lu, Weichao Wang

August 2004 **Mobile Networks and Applications** , Volume 9 Issue 4

**Publisher:** Kluwer Academic Publishers

Full text available:  Pdf (365.14 KB) Additional Information: [full citation](#), [abstract](#), [refs](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 65, Citation

A mobile ad hoc network is a collection of wireless terminals that can be deficiencies include limited wireless bandwidth efficiency, low throughput security. Integrating it with a well-established cellular ...

**Keywords:** ad hoc networks, cellular networks, heterogeneous network security

5 [Introduction of the asymmetric cryptography in GSM, GPRS, UMTS, infrastructure integration](#)

Constantinos E. Grecas, Sotirios I. Maniatis, Iakovos S. Venieris

April 2003 **Mobile Networks and Applications** , Volume 8 Issue 2

**Publisher:** Kluwer Academic Publishers

Full text available:  Pdf (107.24 KB) Additional Information: [full citation](#), [abstract](#), [refs](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 103, Citation

The logic ruling the user and network authentication as well as the data architecture is characterized, regarding the transferring of the parameter processes, by transactions between three nodes of the system, ...

**Keywords:** PKIs, PLMNs, asymmetric cryptography

6 [A security policy system for mobile autonomic networks](#)

Mohamad Aljoudi, Jean Leneutre

October 2007 **Autonomics '07: Proceedings of the 1st international conference on computing and communication systems**

**Publisher:** ICST (Institute for Computer Sciences, Social-Informatics and Telecommunications Science)


Full text available:  Pdf (226.41 KB) Additional Information: [full citation](#), [abstract](#), [refs](#)

**Bibliometrics:** Downloads (6 Weeks): 21, Downloads (12 Months): 206, Citation

An autonomic security system is indispensable for the operation of an autonomic system. Policies are basic stones in building autonomic systems. In this paper, we propose a security framework for mobile autonomic networks. Accordingly, we propose a security framework

**Keywords:** ad-hoc networks, autonomic computing, autonomic network security policy management

## 7 Quality of service control mechanisms for multimedia services

 Ana Mari Lopez Nieto, Maria Belén Pancorbo Marcos, Susana Fernández Aic  
October 2006 **MobiWac '06: Proceedings of the 4th ACM international work management and wireless access**


**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (352.61 KB) **Additional Information:** [full citation](#), [abstract](#), [refs](#)

**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 28, Citation

The new applications coming up in third generation mobile networks cor as real-time audio and video. It is needed to assure the Quality of Servi right mechanisms that allow to processing the different media ...

## 8 100% organic: design and implementation of self-sustaining cellular

 Nathanael Thompson, Petros Zertos, Robert Sombrutzki, Jens-Peter Reddig  
February 2008 **HotMobile '08: Proceedings of the 9th workshop on Mobile applications**


**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (939.85 KB) **Additional Information:** [full citation](#), [abstract](#), [refs](#)

**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 76, Citation

A new model for developing cellular-like networks is emerging in the ma own and install part of the infrastructure and share it with other custom "organically" as more end users join and contribute to its ...

## 9 Flexible resource allocation and composition across gsm/3g network

 Mohammad Al-Fares, Martin Johnsson, Per Johansson, Amin Vahdat  
August 2008 **MobiArch '08: Proceedings of the 3rd international workshop evolving internet architecture**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (503.14 KB) **Additional Information:** [full citation](#), [abstract](#), [refs](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 99, Citation


A significant challenge facing wireless and mobile networking is seamless connectivity. As expected, no single network operator and no single technology wireless access landscape. Instead, heterogeneity and change character

**Keywords:** mobile roaming, network composition, resource allocation

## 10 Enhanced privacy and authentication for the global system for mobile

Chii-Hwa Lee, Min-Shiang Hwang, Wei-Pang Yang  
July 1999 **Wireless Networks**, Volume 5 Issue 4

**Publisher:** Kluwer Academic Publishers

Full text available:  Pdf (204.97 KB) **Additional Information:** [full citation](#), [abstract](#), [refs](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 144, Citation

The Global System for Mobile Communications (GSM) is widely recognizing mobile network architecture. Increasing market demands point toward related issues in communications. The security requirements of ...

#### 11 A smartcard for authentication in WLANs



Marc Loutrel, Pascal Urien, Guy Pujolle

October 2003 **LANC '03**: Proceedings of the 2003 IFIP/ACM Latin America and Latin American agenda for network research

**Publisher:** ACM [Request Permissions](#)

Full text available: [PDF \(333.05 KB\)](#) **Additional Information:** [full citation](#), [abstract](#), [ref](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 86, Citation

Wireless LANs based on the IEEE 802.11b standard have spread very quickly in the last few years. Nevertheless a lot of security issues remain and stop its deployment. One of the most important issues is the authentication of a terminal ...

**Keywords:** authentication, smartcard, wireless LANs

#### 12 On the security of wireless network access with enhancements



Lein Harn, Wen-Jung Hsiao

September 2003 **WISE '03**: Proceedings of the 2nd ACM workshop on Wireless Security

**Publisher:** ACM [Request Permissions](#)

Full text available: [PDF \(263.94 KB\)](#) **Additional Information:** [full citation](#), [abstract](#), [ref](#)

**Bibliometrics:** Downloads (6 Weeks): 25, Downloads (12 Months): 232, Citation

The security of the current 3G wireless protocols addresses the problem of securing data transmission, in addition to fulfilling the higher 3G security requirements of mobile IP networks as well as voice networks. However, the approach adopted

**Keywords:** 3G mobile network security and authentication, security

#### 13 Fast and scalable wireless handoffs in support of mobile Internet applications



Ramón Cáceres, Venkata N. Padmanabhan

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4

**Publisher:** Kluwer Academic Publishers

Full text available: [PDF \(187.08 KB\)](#) **Additional Information:** [full citation](#), [abstract](#), [ref](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 33, Citation

Future internetworks will include large numbers of portable devices moving between networks. We propose a hierarchical mobility management scheme for such environments that exploits locality in user mobility to restrict handoff processing ...

#### 14 SAP: seamless authentication protocol for vertical handoff in heterogeneous networks



Scott C.-H. Huang, Hao Zhu, Wensheng Zhang

August 2006 **QShine '06**: Proceedings of the 3rd international conference on Quality of Service in Heterogeneous Wired/Wireless Networks

**Publisher:** ACM

Full text available: [PDF \(142.13 KB\)](#) **Additional Information:** [full citation](#), [abstract](#), [ref](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 83, Citation


802.11 standards support high data rates for a low price and thus provide for WLANs. On the other hand, 3G standards offer a much wider area of ubiquitous connectivity. The integration of them takes advantages ...

**15** [Hiperlan/2 public access interworking with 3G cellular systems](#)

[Stephen McCann, Helena Flygare](#)

January 2004 **Wireless Networks**, Volume 10 Issue 1

**Publisher:** Kluwer Academic Publishers


Full text available:  Pdf (196.64 KB) Additional Information: [full citation](#), [abstract](#), [refs](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 47, Citation

This paper discusses some of the recent work within the Broadband RAC (BRAN) project of ETSI (European Telecommunications Standards Institute) of establishing an interworking solution between Hiperlan/2 and 3G cellular networks.

**Keywords:** 3G, BRAN, ETSI, Hiperlan/2, WIG, interworking, public access

**16** [Adopting IMS in WiFi technology](#)

 [Mehdi Mani, Noel Crespi](#)

September 2007 **Mobility '07: Proceedings of the 4th international conference on mobile computing and systems and the 1st international symposium on mobile interaction in mobile technology**

**Publisher:** ACM


Full text available:  Pdf (591.77 KB) Additional Information: [full citation](#), [abstract](#), [refs](#)

**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 147, Citation

IP Multimedia Subsystem (IMS) which is standardized by 3GPP is an important delivery of innovating IP-Telephony and Multimedia services to the customer networks. However, IMS is almost access independent and multiple access

**Keywords:** IMS, horizontal convergence and IP telephony

**17** [Virtual operator based AAA in wireless LAN hot spots with ad-hoc network](#)

 [Junbiao Zhang, Jun Li, Stephen Weinstein, Nan Tu](#)

June 2002 **SIGMOBILE Mobile Computing and Communications Review**

**Publisher:** ACM

Full text available:  Pdf (180.11 KB) Additional Information: [full citation](#), [abstract](#), [refs](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 63, Citation

Sound and effective authentication, authorization and accounting (AAA) and secure mobile wireless accesses are of great importance given the increasing business opportunities in public wireless LAN hot spots. One ...

**18** [A platform for charging, accounting and billing in telecommunication internet](#)


 [Partha Sarathi Chakraborty, Animesh Tripathy, Saswat Chakraborti](#)

January 2009 **ICAC3 '09: Proceedings of the International Conference on A**


## Communication and Control

**Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (551.52 KB) **Additional Information:** [full citation](#), [abstract](#), [refs](#)**Bibliometrics:** Downloads (6 Weeks): 23, Downloads (12 Months): 49, Citations

Current technological advancement in the field of telecommunication an internet causes emergence of a new concept on convergence that enable existing telecommunication business models and moves to a path of inn

**Keywords:** accounting, billing, charging19 [Low-cost communication for rural internet kiosks using mechanical b](#) A. Seth, D. Kroeker, M. Zaharia, S. Guo, S. KeshavSeptember 2006 **MobiCom '06**: Proceedings of the 12th annual international conference on mobile computing and networking**Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (733.95 KB) **Additional Information:** [full citation](#), [abstract](#), [refs](#)**Bibliometrics:** Downloads (6 Weeks): 28, Downloads (12 Months): 191, Citations

Rural kiosks in developing countries provide a variety of services such as death certificates, electricity bill collection, land records, email services, medical and agricultural problems. Fundamental to a kiosk's ...

**Keywords:** delay tolerant networks, low cost, mechanical back-haul, routing system design20 [Exploiting open functionality in SMS-capable cellular networks](#) William Enck, Patrick Traynor, Patrick McDaniel, Thomas La PortaNovember 2005 **CCS '05**: Proceedings of the 12th ACM conference on Computer security**Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (611.26 KB) **Additional Information:** [full citation](#), [abstract](#), [refs](#)**Bibliometrics:** Downloads (6 Weeks): 31, Downloads (12 Months): 236, Citations

Cellular networks are a critical component of the economic and social infrastructure. In addition to voice services, these networks deliver alphanumeric data to a majority of wireless subscribers. To encourage the expansion ...

**Keywords:** denial-of-service, open-functionality, sms, telecommunication

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